

Anti-CDK4

Rabbit Polyclonal Antibody

Catalog # C31-63R

Lot # B3216-32

Cited Applications

ELISA, IP, WB

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the 24kDa CDK4 (p34) protein.

Cross Reactivity

Human, Rat and Mouse

Host/Isotype/Clone#

Rabbit, Antiserum

Immunogen

The antibody was produced against synthesized peptide corresponding to the C-Terminus of the human CDK4 (p34) protein conjugated to KLH.

Formulation

0.01% (w/v) Sodium Azide

Stability

1yr at -20° C from date of shipment

Scientific Background

CDK4 is a member of the cyclin-dependent protein kinase family and is involved in the control of cell proliferation during the G1 phase of cell cycle. CDK4 forms a complex with the D-type cyclins and is inhibited by p16 (cyclin-dependent kinase inhibitor-2). CDK4 can mediate phosphorylation of the C-terminal region of RB protein leading to an active transcriptional repression of E2F complex (1). CDC37 and HSP90 can preferentially associate with the fraction of CDK4 not bound to D-type cyclins. SMAD3 is a major physiologic substrate of the G1 cyclin-dependent kinases CDK4 and CDK2 (2).

References:

1. Harbour, J W. et al: Cdk phosphorylation triggers sequential intramolecular interactions that progressively block Rb functions as cells move through G1. Cell 98: 859-869, 1999.
2. Matsuura, I. et al: Cyclin-dependent kinases regulate the antiproliferative function of Smads. Nature 430: 226-231, 2004.

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Purification	Delipidation and Defibrination
Stability	1yr at -20° C from date of shipment
Storage & Shipping	Store product at -20° C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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